Contents Volume 65 (1992)

Vol. 65, Nos. 1+2 (January 1, 1992)

On the effect of organo-silicon block copolymer–solvent–precipitant system composition on asymmetric membrane surface layer thickness (*Short Communication*)
V.G. Karachevtsev, A.I. Bon, V.P. Dubyaga and E.G. Dubyaga (Vladimir, USSR) 1
Effects of alkali metal cations on myoblast membrane electrical properties during *in vitro* myogenic fusion
M.T. Santini, C. Cametti, P. Treccosti and P.L. Indovina (Rome, Italy) 7
Molten salt facilitated transport membranes. Part 1. Separation of oxygen from air at high temperatures
G.P. Pez and R.T. Carlin (Allentown, PA, USA) 21
Molten salt facilitated transport membranes. Part 2. Separation of ammonia from nitrogen and hydrogen at high temperatures
D.V. Laciak, G.P. Pez and P.M. Burban (Allentown, PA, USA) 31
An analytical solution for competitive facilitated membrane transport
A. Dindi, R.D. Noble and C.A. Koval (Boulder, CO, USA) 39
Transport of amino acids though organic liquid membranes. II. Aspects of the mechanism
C.V. Uglea and C.V. Zănoagă (Iassy, Romania) 47
Relationship between permselectivity and permeability in pervaporation of water/alcohol mixture
T. Iwatsubo, T. Masuoka and K. Mizoguchi (Ibaraki, Japan) 51
Encapsulation by interfacial polycondensation. I. The capsule production and a model for wall growth
L.J.J.M. Jansen and K. te Nijenhuis (Delft, Netherlands) 59
Encapsulation by interfacial polycondensation. II. The membrane wall structure and the rate of the wall growth
L.J.J.M. Janssen and K. te Nijenhuis (Delft, Netherlands) 69
Effect of geometry on solvent front penetration in glassy polymers
P.I. Lee and C.-J. Kim (Toronto, Ont. Canada) 77
Polarographic method for the determination of the permeability coefficient of polymers towards oxygen dissolved in water
G. Friedmann, P. Sperry and J. Brossas (Strasbourg, France) 93
Surface pore structures of micro- and ultrafiltration membranes imaged with the atomic force microscope
P. Dietz, P.K. Hansma (Santa Barbara, CA, USA), O. Inacker, H.-D. Lehmann (Reutlingen, Germany) and K.-H. Herrmann (Tübingen, Germany) 101
Electrochemical synthesis of ultrathin film composite membranes
C. Liu, W.-J. Chen and C.R. Martin (Fort Collins, CO, USA) 113
Transport of electrolytes through charge mosaic composite membranes
K. Ishizu and M. Amemiya (Tokyo, Japan) 129
Salt and base separation with interpolymer type carboxylic ion-exchange membrane
R. Wycisk and W.M. Trochimczuk (Wrocław, Poland) 141
Effect of boundary layer mass transfer resistance in the pervaporation of dilute organics
B. Raghunath and S.-T. Hwang (Cincinnati, OH, USA) 147
A statistical mechanics approach to the separation of methane and nitrogen using capillary condensation in a microporous membrane
A. Elkamel and R.D. Noble (Boulder, CO, USA) 163
A comprehensive model for cross-flow filtration incorporating polydispersity of the influent
H.B. Dharmappa, J. Verink (Bangkok, Thailand), R. Ben Aim (Compiègne, France), K. Yamamoto (Tokyo, Japan) and S. Vigneswaran (Broadway, N.S.W., Australia) 173
The sorption of water vapor by an amorphous polyamide
R.J. Hernandez, J.R. Giacin and E.A. Grulke (East Lansing, MI, USA) 187

Meeting Announcement 201
Meetings Calendar 202

Vol. 65, No. 3 (January 15, 1992)

Diffusion of aniline through perfluorosulfonate ion exchange membrane
Z. Ogumi, K. Toyama, Z.-I. Takehara (Kyoto, Japan), K. Katakura and S. Inuta (Nara, Japan) 205
Formation of asymmetric polysulfone membranes by immersion precipitation. Part I. Modelling mass transport during gelation
P. Radovanovic, S.W. Thiel and S.-T. Hwang (Cincinnati, OH, USA) 213
Formation of asymmetric polysulfone membranes by immersion precipitation. Part II. The effects of casting solution and gelation bath compositions on membrane structure and skin formation
P. Radovanovic, S.W. Thiel and S.-T. Hwang (Cincinnati, OH, USA) 231
A nonideal model for analysis of gas separation permeators
K.A. Fattah, S.M. Hamam, G. Al-Enezi, H.M. Ettoueny (Safat, Kuwait) and R. Hughes (Salford, UK) 247
Evaluation of palladium-impregnation on the performance of a Vycor glass catalytic membrane reactor
K.C. Cannon and J.J. Hacskaylo (Freeport, TX, USA) 259
Water permeability in poly(ortho ester)s
A.R. Coulter, R.A. Deeken and G.M. Zentner (Lawrence, KS, USA) 269
Dynamic optimization of a one-stage reverse-osmosis installation with respect to membrane fouling
A.J.B. van Boxtel, Z.E.H. Otten, H.J.L.J. van der Linden (Ede, Netherlands) 277
Preparation of hollow fiber membranes from polyetherimide for gas separation
K. Kneifel and K.-V. Peinemann (Geesthacht, Germany) 295

Meetings Calendar 309
Author Index Volume 65 (1992) 311
Subject Index Volume 65 (1992) 312